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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,786	08/25/2003	Patrick A. Bolen	115584-00326	1095
27557	7590 11/03/2004		EXAM	INER
BLANK ROME LLP 600 NEW HAMPSHIRE AVENUE, N.W.			NGUYEN, TRUC T	
	ON, DC 20037	. 	ART UNIT	PAPER NUMBER
	,		2833	
			DATE MAILED: 11/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		M_{ℓ} / .				
	Application No.	Applicant(s)				
	10/646,786	BOLEN ET AL.				
Office Action Summary	Examiner	Art Unit				
, , , , , , , , , , , , , , , , , , , ,	Truc T. T. Nguyen	2833				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be tile reply within the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	•	·				
1)⊠ Responsive to communication(s) filed on 10	September 2004.					
-	· ·					
3) Since this application is in condition for allow	<u>- </u>					
closed in accordance with the practice unde	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•				
4) ⊠ Claim(s) 1-9 and 14-16 is/are pending in the 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-9, 14-16 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exami	iner.					
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corr						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a l	ents have been received. ents have been received in Applica riority documents have been receiv eau (PCT Rule 17.2(a)).	tion No red in this National Stage				
Attachment(s)	·					
1) Notice of References Cited (PTO-892)	4) Interview Summar					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 8/25/04. 	Paper No(s)/Mail D Notice of Informal Other:	Pate Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Babow (US 4,871,319).

Babow discloses a flat cable circuit board assembly, comprising:

- a housing (12);
- a flat cable (20) having a plurality of round conductors (86, 88) therein; and
- a circuit board (32) having a plurality of solder pads (48, 54, 62);
- a layer of solder paste (92);

wherein the flat cable has at least one terminal end where the round conductors are exposed and soldered to the solder pads.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babow (US 4,871,319) in view of Kozel et al. (US 6,210,210).

Babow substantially disclosed the claimed invention except for the flat cable being sonically bond and without using adhesive.

Kozel et al. teach a flat cable (100) being sonically bond and without using adhesive (column 2, lines 14-22).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply sonically bond without adhesive method into Babow's flat cable, as taught by Kozel et al. to ensure a reliable electrical connection.

5. Claims 4 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babow (US 4,871,319).

Babow substantially disclosed the claimed invention except for the cable circuit board assembly is use in a clockingspring.

It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitation. Ex Parte Masham, 2 USPQ2d 1647 (1987).

6. Claims 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bannai et al. (US 5,637,005) in view of Babow (US 4,871,319).

Bannai et al. disclose a clockspring connector assembly.

Bannai et al. substantially disclosed the claimed invention except for a flat cable and circuit board assembly.

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Babow teaches a flat-cable-circuit-board assembly (see the rejection of claims 1-4, 14-16 above).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute flat-cable-connector assembly of Bannai by the a flat-cable-circuit-board assembly of Babow to ensure a reliable electrical connection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Truc T. T. Nguyen whose telephone number is 571-272-2011. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on 571-272-2800 extension 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Truc T. T. Nguyen Primary Examiner Art Unit 2833

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